

Claims

1. A steel wheel-type linear motor in which a stator coil acting as a primary conductor of a linear motor is located onto a bogie that supports a steel wheel capable of traveling on a rail so as to be opposite to a secondary conductor on the ground side; said stator coil is contained in a coil groove of a stator core including an opening so as to protrude from an end of said stator core; and a bar is fitted by insertion in said opening, and thus said stator coil is fixed to said stator core, the steel wheel-type linear motor comprising:

a protective cover having insulating properties that is located in direct contact on the ground side of said stator coil protruded from said stator core; and
a vent hole formed in said protective cover in opposition to a gap formed between adjacent ends of said stator coil protruded from said stator core; characterized in that

said bar is made to protrude from said stator core, and thus said protective cover on said stator core side is pressed onto said stator coil to be supported by means of said bar; said protective cover on the side opposite to said stator core is fixed to said stator coil by means of a fastener member having insulating properties that goes through said vent holes; and said stator coil and said protective cover are formed to be of integral structure using an insulating varnish.

2. The steel wheel-type linear motor according to claim 1, wherein said bars extend up to said vent hole on the end

side of said stator coil at intervals of a predetermined number of bars.